



Keyway Testing Technology (Guangdong) Co., Ltd
Room 2102, Building 6, Dongyi Intelligent Equipment New Energy Vehicle Park,
No.30 of Tangxia District, Dongshen Road, Tangxia Town, Dongguan City,
Guangdong province, China

RF Conducted Test

E.U.T:	Power Pro Control System
Model Number:	WF-3511
Sample ID	33000254423
Sample(s) Status:	Engineer sample
Date of Receipt:	Oct. 17, 2025
Date of Test:	Oct. 17 ~ 27, 2025
FCC ID:	2BDDWWF3511
Report No.	2025102737988890-00
Tester	Jacob Ouyang



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A.1 DUTY CYCLE

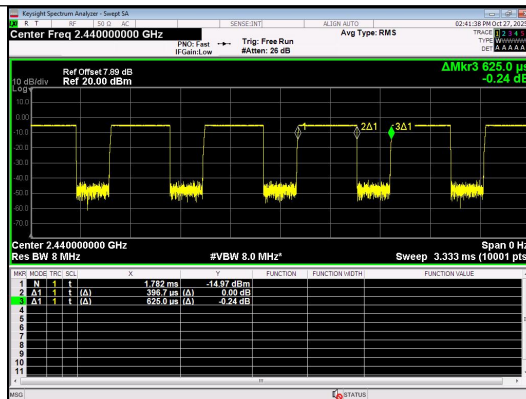
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	0.396	0.625	63.45	0.6345	1.9757	2.5253
	19	0.397	0.625	63.47	0.6347	1.9743	2.5189
	39	0.396	0.625	63.45	0.6345	1.9757	2.5253

Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39



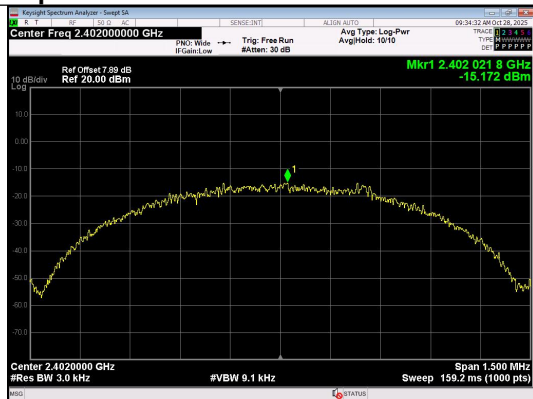
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A.2 POWER SPECTRAL DENSITY

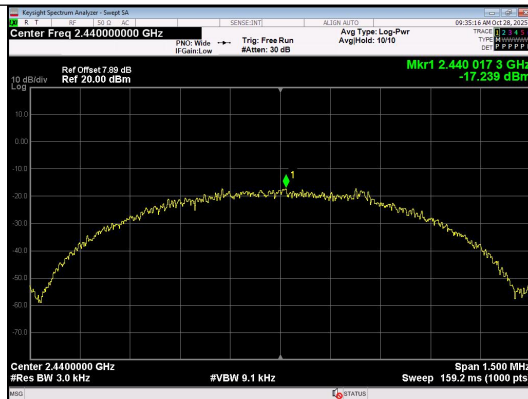
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-15.170	≤8	PASS
BLE 1M	19	-17.240	≤8	PASS
BLE 1M	39	-19.210	≤8	PASS

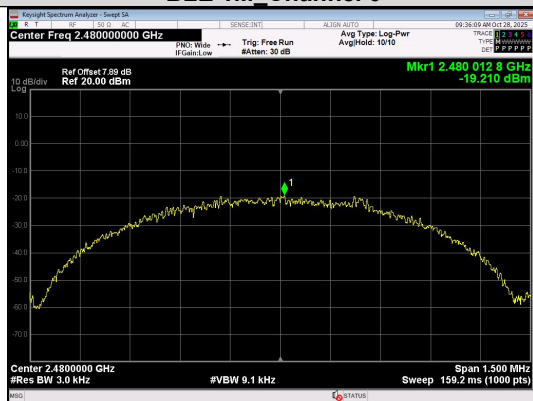
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39



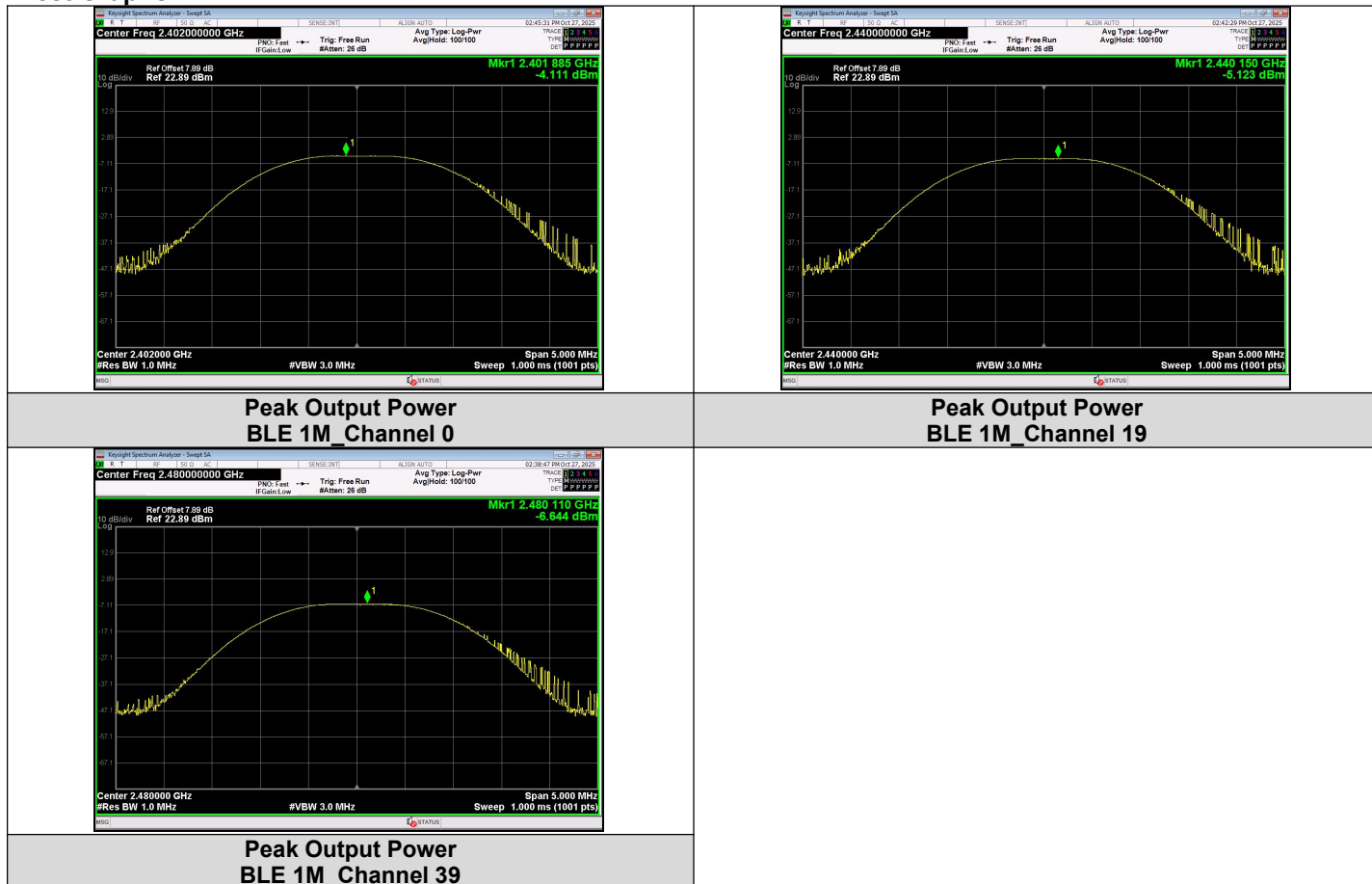
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A.3 CONDUCTED PEAK OUTPUT POWER

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
BLE 1M	0	-4.11	0.39	None	≤30	PASS
	19	-5.12	0.31	None	≤30	PASS
	39	-6.64	0.22	None	≤30	PASS

Test Graphs





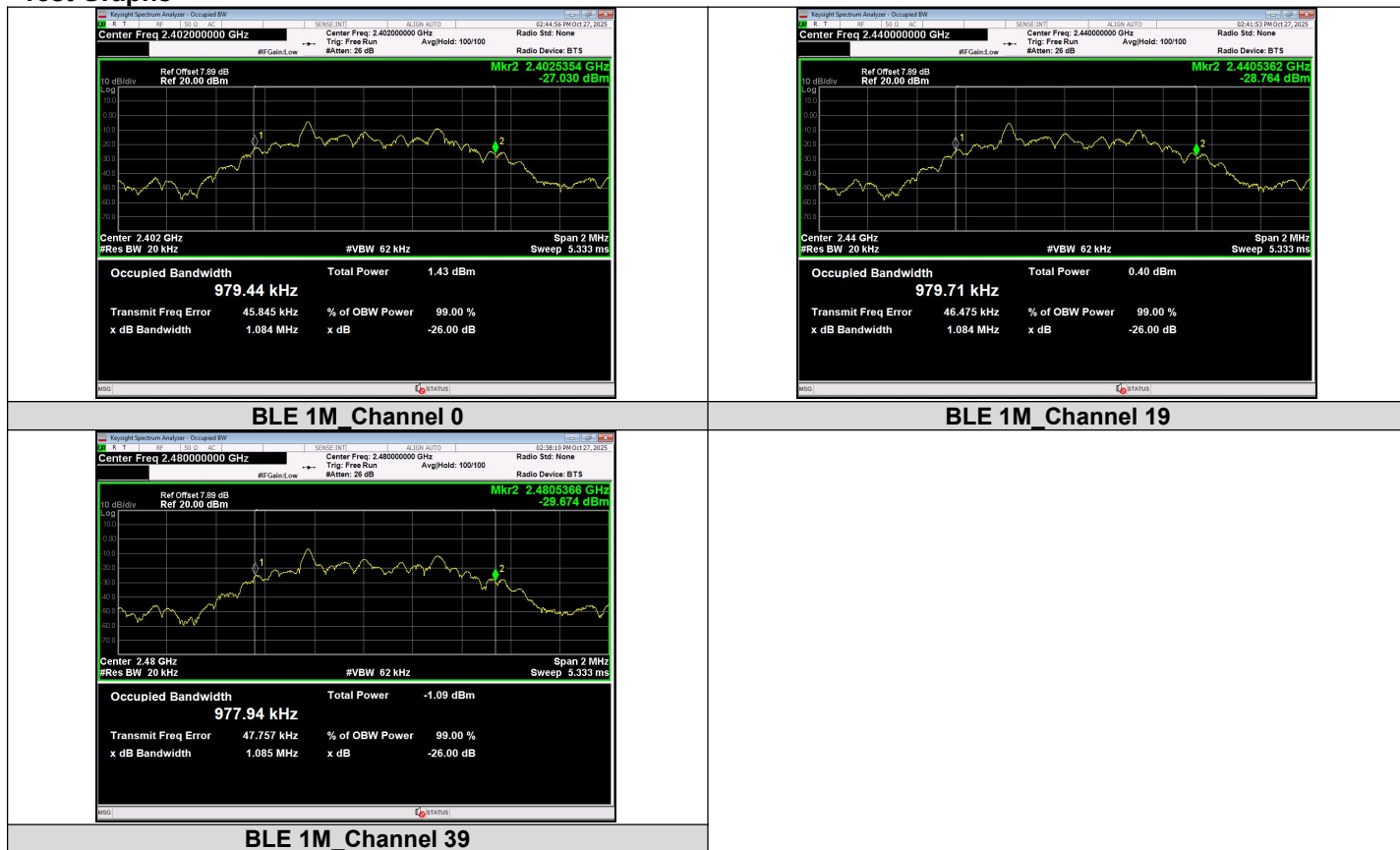
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A.4 99% BANDWIDTH

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	0.97944
BLE 1M	19	2440	0.97971
BLE 1M	39	2480	0.97794

Test Graphs





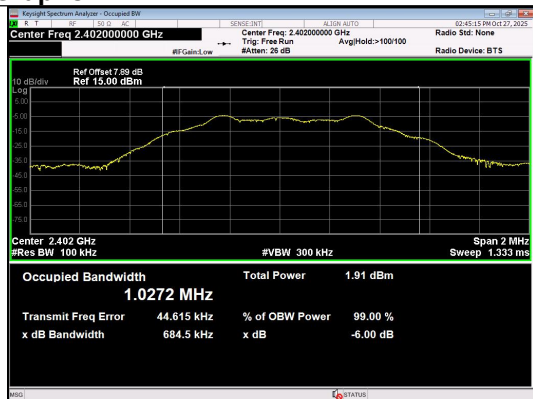
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A.5 6DB BANDWIDTH

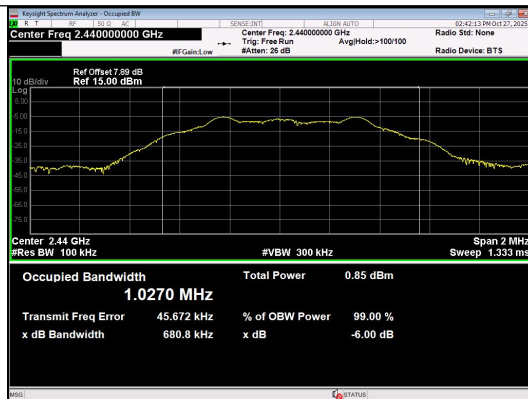
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6845	≥0.5	PASS
	19	2440	0.6808		PASS
	39	2480	0.6850		PASS

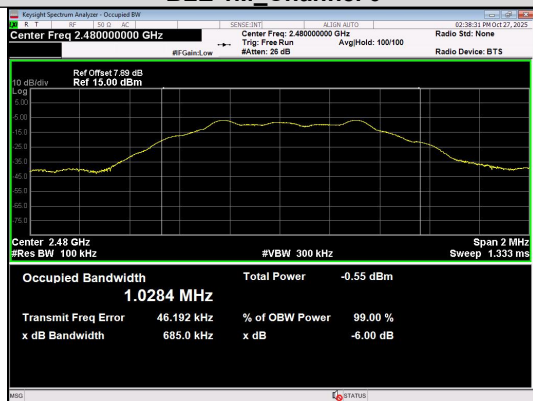
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

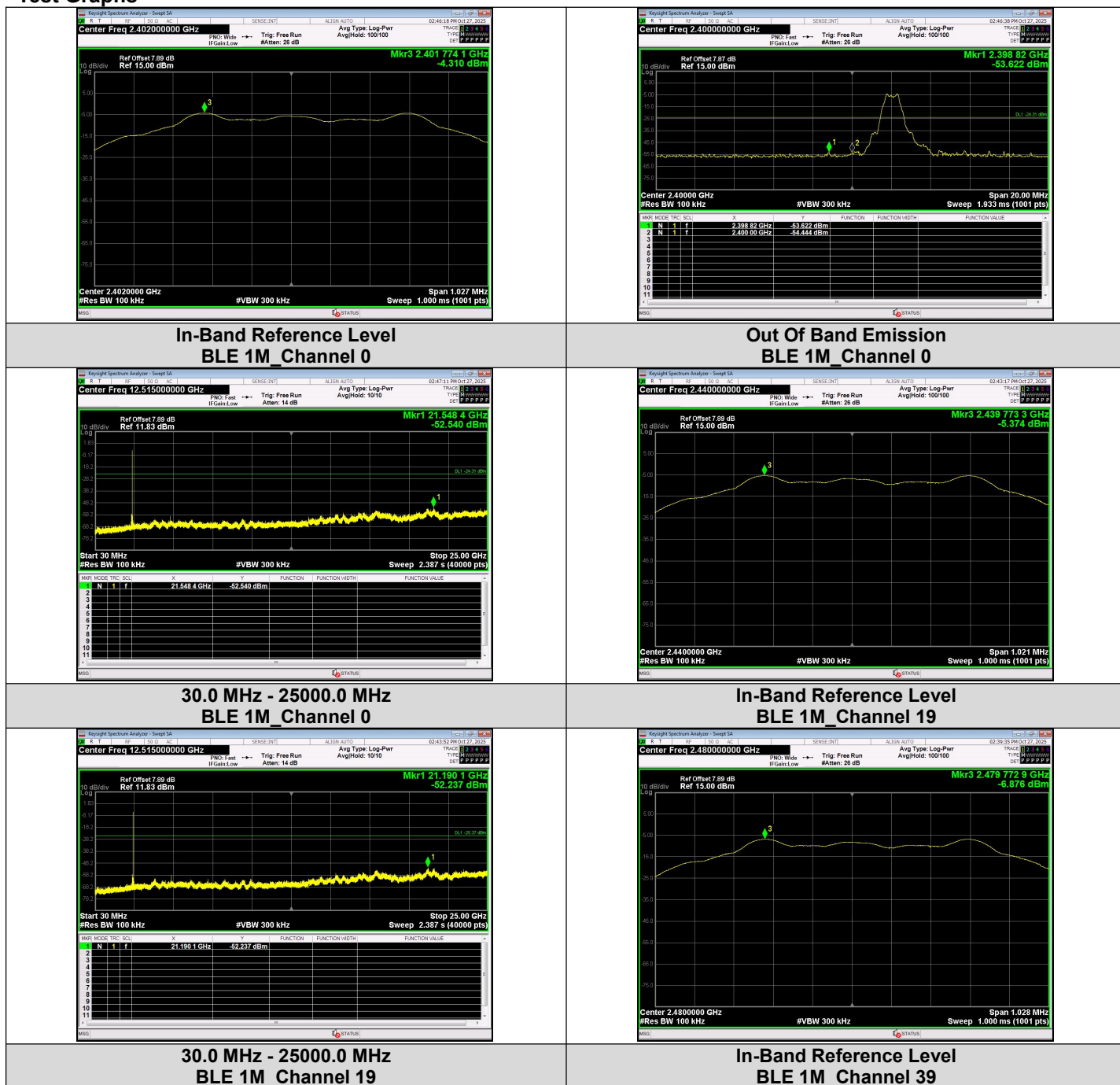
A.6 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.82	-53.622	-24.31	-29.312	PASS
		2400.00	-54.444	-24.31	-30.134	PASS
		21548.4	-52.540	-24.31	-28.230	PASS
	19	21190.1	-52.237	-25.37	-26.867	PASS
		2483.50	-54.837	-26.88	-27.957	PASS
		21209.5	-52.307	-26.88	-25.427	PASS

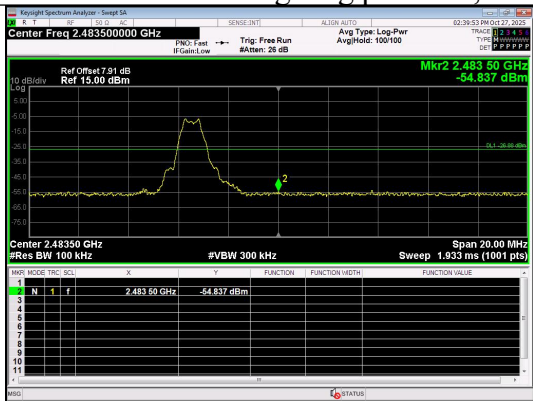
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

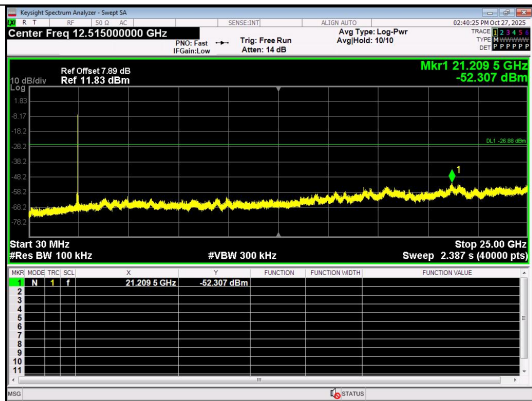




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Out Of Band Emission
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39